

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
12 May 2005 (12.05.2005)

PCT

(10) International Publication Number
WO 2005/043026 A1

(51) International Patent Classification⁷: **F16L 25/00**

(21) International Application Number:
PCT/CA2004/001904

(22) International Filing Date:
1 November 2004 (01.11.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/516,297 3 November 2003 (03.11.2003) US
60/516,728 4 November 2003 (04.11.2003) US
60/609,269 14 September 2004 (14.09.2004) US

(71) Applicant (for all designated States except US): **BRASS-CORP LIMITED** [CA/CA]; 961 Alness Street, North York, Ontario M3J 2J1 (CA).

(72) Inventors; and

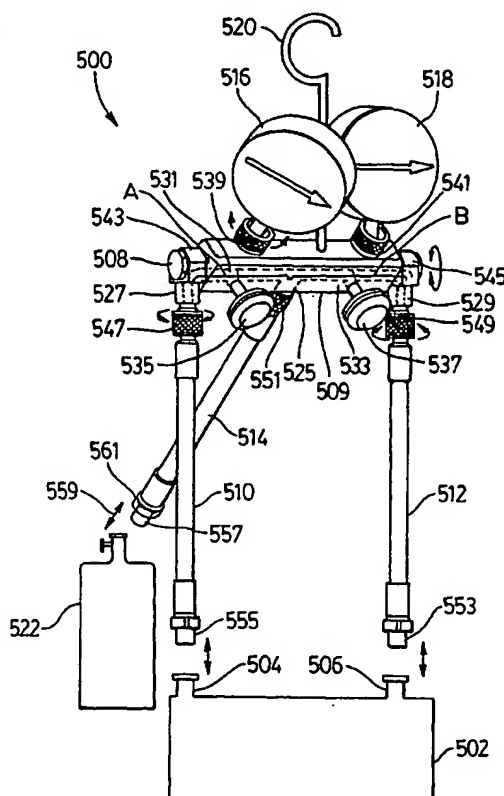
(75) Inventors/Applicants (for US only): **BRASS, Jack** [CA/CA]; 96 Hillmount Ave., Toronto, Ontario M6B 1X6 (CA). **MCEWAN, Gregory R. W.** [CA/CA]; Reviresco, 257 Mitchell Rd., Cramahe Township, RR #2, Warkworth, Ontario K0K 3K0 (CA). **KNOWLES, Steven M.** [US/US]; 207 Damron Dr., North Manchester, Indiana 46962 (US).

(74) Agent: **WILKES, Robert, H.**; 133 Lowther Ave., Toronto, Ontario M5R 1E4 (CA).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,

[Continued on next page]

(54) Title: **SWIVEL ASSEMBLIES FOR CONDUITS CARRYING PRESSURIZED FLUIDS TO OR FROM AIR CONDITIONING OR REFRIGERATION SYSTEMS**



(57) Abstract: A conduit for use in association with an air conditioning or refrigeration system. Conduit has first and second conduit portions, and swivel providing fluid communication between first and second conduit portions. Swivel permits rotational movement of the first conduit portion relative to the second conduit portion. Swivel is constrained to prevent linear movement between the first and second portions at the swivel. Conduit also has a fitting for external connection of the conduit to a pressure port of air conditioning or refrigeration system, fitting for fluid communication with the first and second conduit portions. The conduit provides sealed fluid communication from first conduit portion, swivel and second conduit portion to air conditioning or refrigeration system when fitting is connected to air conditioning or refrigeration system. There are also conduit adapters, injection hose assemblies, and charging manifolds with swivels, and methods of utilizing such conduits and swivels.



TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.